

# **6AS5**

# **BEAM PENTODE**

# **DESCRIPTION AND RATING =**

The 6AS5 is a miniature beam pentode designed primarily for use in the audio-frequency power output stage of automobile receivers. The tube is capable of delivering a relatively high power output at low plate and screen voltages.

## GENERAL

## **ELECTRICAL**

Cathode—Coated Unipotential		
Heater Voltage, AC or DC	6.3	Volts
Heater Current	8.0	<b>Amperes</b>
Direct Interelectrode Capacitances, approximate*		
Grid-Number 1 to Plate	0.6	$\mu\muf$
Input	12	$\mu\mu f$
Output	6.3	$\mu\mu$ f

#### MECHANICAL

Mounting Position—Any Envelope—T-5½, Glass Base—E7-1, Miniature Button 7-Pin

## **MAXIMUM RATINGS**

#### **DESIGN-CENTER VALUES**

Plate Voltage	Volts
Screen Voltage	Volts
Plate Dissipation	Watts
Screen Dissipation1.0	Watts
Heater-Cathode Voltage	
Heater Positive with Respect to Cathode90	<b>Volts</b>
Heater Negative with Respect to Cathode	Volts
Grid-Number 1 Circuit Resistance	
With Fixed Bias0.1	Megohms
With Cathode Bias	Megohms



Supersedes ET-T600A, dated 9-51

### **BASING DIAGRAM**



## **TERMINAL CONNECTIONS**

Pin 1—Cathode and Beam Plates

Pin 2—Grid Number 1

Pin 3—Heater

Pin 4—Heater

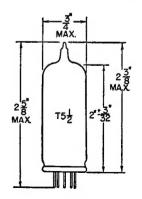
Pin 5-Grid Number 1

Pin 6—Grid Number 2

(Screen)

Pin 7-Plate

#### PHYSICAL DIMENSIONS



RETMA 5-3



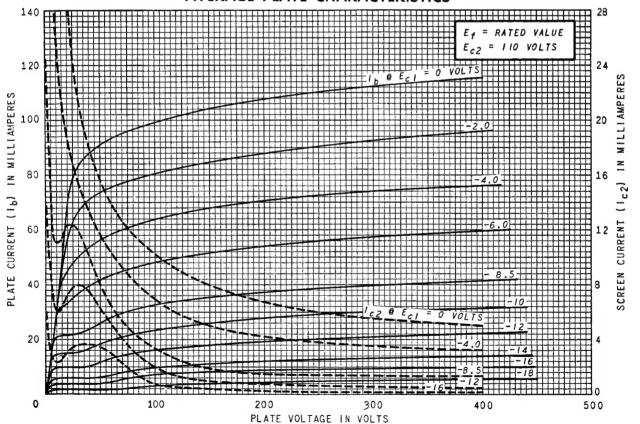
# **CHARACTERISTICS AND TYPICAL OPERATION**

## CLASS A1 AMPLIFIER

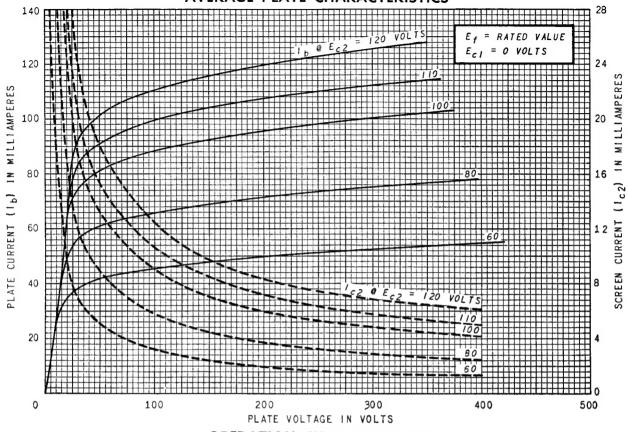
Plate Voltage	) Volts
Screen Voltage	) Volts
Grid-Number 1 Voltage	
Peak AF Grid-Number 1 Voltage	Volts
Transconductance	
Zero-Signal Plate Current	
Maximum-Signal Plate Current	
Zero-Signal Screen Current	) Milliamperes
Maximum-Signal Screen Current	
Load Resistance	
Total Harmonic Distortion, approximate	
Maximum-Signal Power Output	

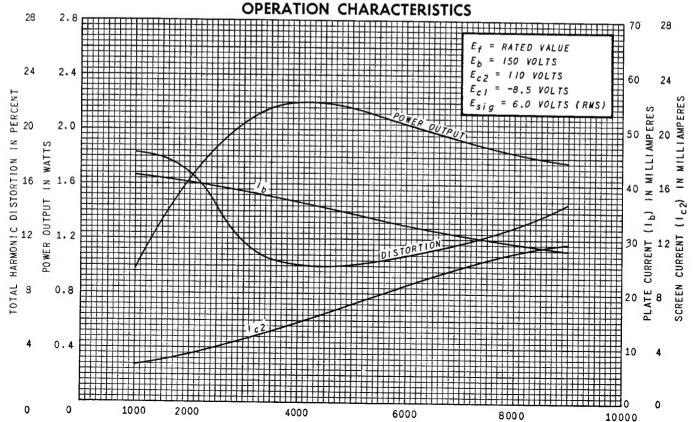
<sup>\*</sup> Without external shield.

## **AVERAGE PLATE CHARACTERISTICS**



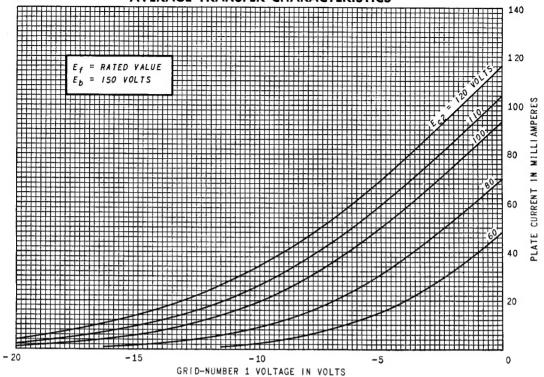




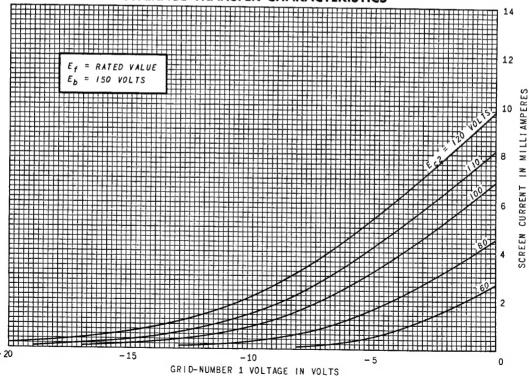


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## **AVERAGE TRANSFER CHARACTERISTICS**



## **AVERAGE TRANSFER CHARACTERISTICS**



# **ELECTRONIC COMPONENTS DIVISION**

